

Pt. 63, Subpt. G, Table 21

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Control device	Reporting requirements
(3) Boiler or Process Heater with a design heat input capacity less than 44 megawatts and vent stream is not mixed with the primary fuel.	Report all daily average ^a firebox temperatures that are outside the range established in the NCS ^b or operating permit and all operating days when insufficient monitoring data are collected. ^c
(4) Flare	Report the duration of all periods when all pilot flames are absent.
(5) Condenser	Report all daily average ^a exit temperatures that are outside the range established in the NCS ^b or operating permit and all operating days when insufficient monitoring data are collected. ^c
(6) Carbon Adsorber (Regenerative)	(i) Report all carbon bed regeneration cycles when the total regeneration stream mass or volumetric flow is outside the range established in the NCS ^b or operating permit. (ii) Report all carbon bed regeneration cycles during which the temperature of the carbon bed after regeneration is outside the range established in the NCS ^b or operating permit. (iii) Report all operating days when insufficient monitoring data are collected. ^c
(7) Carbon Adsorber (Non-Regenerative) ..	(i) Report all operating days when inspections not done according to the schedule developed as specified in table 13 of this subpart. (ii) Report all operating days when carbon has not been replaced at the frequency specified in table 13 of this subpart.
(8) All Control Devices	(i) Report the times and durations of all periods when the vent stream is diverted through a bypass line or the monitor is not operating, or (ii) Report all monthly inspections that show the valves are moved to the diverting position or the seal has been changed.

^aThe daily average is the average of all values recorded during the operating day, as specified in § 63.147(d).

^bNCS = Notification of Compliance Status described in § 63.152.

^cThe periodic reports shall include the duration of periods when monitoring data are not collected for each excursion as defined in § 63.152(c)(2)(ii)(A).

TABLE 21 TO SUBPART G OF PART 63—
AVERAGE STORAGE TEMPERATURE
(T_s) AS A FUNCTION OF TANK PAINT
COLOR

Tank Color	Average Storage Tempera- ture (T _s)
White	T _A a = 0

Tank Color	Average Storage Tempera- ture (T _s)
Aluminum	T _A = 2.5
Gray	T _A = 3.5
Black	T _A = 5.0

^a T_A is the average annual ambient temperature in degrees Fahrenheit.

TABLE 22 TO SUBPART G OF PART 63—PAINT FACTORS FOR FIXED ROOF TANKS

Tank color		Paint factors (F _p) Paint Condition	
Roof	Shell	Good	Poor
White	White	1.00	1.15
Aluminum (specular)	White	1.04	1.18
White	Aluminum (specular)	1.16	1.24
Aluminum (specular)	Aluminum (specular)	1.20	1.29
White	Aluminum (diffuse)	1.30	1.38
Aluminum (diffuse)	Aluminum (diffuse)	1.39	1.46
White	Gray	1.30	1.38
Light gray	Light gray	1.33	1.44
Medium gray	Medium gray	1.40	1.58

TABLE 23 TO SUBPART G OF PART 63—AVERAGE CLINGAGE FACTORS (c) ^a

Liquid	Shell condition		
	Light rust ^b	Dense rust	Gunite lined
Gasoline	0.0015	0.0075	0.15
Single component stocks	0.0015	0.0075	0.15
Crude oil	0.0060	0.030	0.60

^a Units for average clingage factors are barrels per 1,000 square feet.

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^bIf no specific information is available, these values can be assumed to represent the most common condition of tanks currently in use.

TABLE 24 TO SUBPART G OF PART 63—
TYPICAL NUMBER OF COLUMNS AS A
FUNCTION OF TANK DIAMETER FOR
INTERNAL FLOATING ROOF TANKS
WITH COLUMN SUPPORTED FIXED
ROOFS ^A

Tank diameter range (D in feet)	Typical number of columns, (N _c)
0 < D ≤ 85	1
85 < D ≤ 100	6
100 < D ≤ 120	7
120 < D ≤ 135	8
135 < D ≤ 150	9
150 < D ≤ 170	16
170 < D ≤ 190	19
190 < D ≤ 220	22
220 < D ≤ 235	31
235 < D ≤ 270	37
270 < D ≤ 275	43
275 < D ≤ 290	49
290 < D ≤ 330	61
330 < D ≤ 360	71
360 < D ≤ 400	81

^aData in this table should not supersede information on actual tanks.

TABLE 25 TO SUBPART G OF PART 63—
EFFECTIVE COLUMN DIAMETER (F_c)

Column type	F _c (feet)
9-inch by 7-inch built-up columns	1.1
8-inch-diameter pipe columns	0.7
No construction details known	1.0

TABLE 26 TO SUBPART G OF PART 63—
SEAL RELATED FACTORS FOR INTER-
NAL FLOATING ROOF VESSELS

Seal type	K _s	n
Liquid mounted resilient seal:		
Primary seal only	3.0	0
With rim-mounted secondary seal ^a	1.6	0
Vapor mounted resilient seal:		
Primary seal only	6.7	0
With rim-mounted secondary seal ^a	2.5	0

^aIf vessel-specific information is not available about the secondary seal, assume only a primary seal is present.

TABLE 27 TO SUBPART G OF PART 63—
SUMMARY OF INTERNAL FLOATING
DECK FITTING LOSS FACTORS (K_F)
AND TYPICAL NUMBER OF FITTINGS
(N_F)

Deck fitting type	Deck fitting loss factor (K _F) ^a	Typical number of fittings (N _F)
Access hatch	1.

Deck fitting type	Deck fitting loss factor (K _F) ^a	Typical number of fittings (N _F)
Bolted cover, gasketed.	1.6	
Unbolted cover, gasketed.	11	
Unbolted cover, ungasketed.	^b 25	
Automatic gauge float well.	.....	1.
Bolted cover, gasketed.	5.1	
Unbolted cover, gasketed.	15	
Unbolted cover, ungasketed.	^b 28	
Column well .....	.....	(see Table 24).
Builtup column-sliding cover, gasketed.	33	
Builtup column-sliding cover, ungasketed.	^b 47	
Pipe column-flexible fabric sleeve seal.	19	
Pipe column-sliding cover, gasketed.	32	
Pipe column-sliding cover, ungasketed.	.....	1.
Ladder well	56	
Sliding cover, gasketed.	^b 76	
Sliding cover, ungasketed.	.....	(5+D/10+D ² /600) ^c .
Roof leg or hanger well.	.....
Adjustable	^b 7.9	
Fixed	0	
Sample pipe or well	.....	1.
Slotted pipe-sliding cover, gasketed.	44	
Slotted pipe-sliding cover, ungasketed.	57	
Sample well-slit fabric seal, 10 percent open area.	^b 12	
Stub drain, 1-in diameter ^d .	1.2	(D ² /125) ^c .
Vacuum breaker ....	.....	1.
Weighted mechanical actuation, gasketed.	^b 0.7	
Weighted mechanical actuation, ungasketed.	0.9	

^aUnits for K_F are pound-moles per year.